



PubMed	Entrez	BLAST	OMIM	Taxonomy	Structure
Info	FASTA format description				

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A sequence in FASTA format begins with a single-line description, followed by lines of sequence data. The description line is distinguished from the sequence data by a greater-than (">") symbol in the first column. It is recommended that all lines of text be shorter than 80 characters in length. An example sequence in FASTA format is:

Education

- Program selection guide
- Tutorial
- URL API guide

```
>gi|532319|pir|TVFV2E|TVFV2E envelope protein
ELRLRYCAPAGFALLKCNDAADYDGFKTNCNSVSVVHCTNLMNTTVTTLGLLNGSYSENRT
QIWQKHRTSNDSSALILLNKHYNLTVTCRPGNKTVLPVTIMAGLVFHSQKYNLRLRQAWC
HFPSNWKGAWEVKEEIVNLPKERYRGTDPKRIFFQRQWGDPEANLWFNCHGEFFYCK
MDWFLNLYLNLTVDAADHNECKNTSGTKSGNKRAPGPCVQRTYVACHIRSVIITWLETISKK
TYAPPREGHLECTSTVTGMTVELNYIPKNRTNVTLSPOIESIWAAEALDRYKLVEITPIGF
APTEVRRYTGGERQKRVPFVXXXXXXXXXXXXXXXXXXXXXVQSHLLAGILQQQKNL
LAAVEAQQQMLKLTIGVK
```

Download

- Executables
- Databases
- Source code

Support

- Helpdesk
- Mailing list

Sequences are expected to be represented in the standard IUB/IUPAC amino acid and nucleic acid codes, with these exceptions: lower-case letters are accepted and are mapped into upper-case; a single hyphen or dash can be used to represent a gap of indeterminate length; and in amino acid sequences, U and * are acceptable letters (see below). Before submitting a request, any numerical digits in the query sequence should either be removed or replaced by appropriate letter codes (e.g., N for unknown nucleic acid residue or X for unknown amino acid residue).

The nucleic acid codes supported are:

A --> adenosine	M --> A C (amino)
C --> cytidine	S --> G C (strong)
G --> guanine	W --> A T (weak)
T --> thymidine	B --> G T C
U --> uridine	D --> G A T
R --> G A (purine)	H --> A C T
Y --> T C (pyrimidine)	V --> G C A
K --> G T (keto)	N --> A G C T (any)
	- gap of indeterminate length

For those programs that use amino acid query sequences (BLASTP and TBLASTN), the accepted amino acid codes are:

A	alanine	P	proline
B	aspartate or asparagine	Q	glutamine
C	cystine	R	arginine
D	aspartate	S	serine
E	glutamate	T	threonine
F	phenylalanine	U	selenocysteine
G	glycine	V	valine
H	histidine	W	tryptophan
I	isoleucine	Y	tyrosine
K	lysine	Z	glutamate or glutamine
L	leucine	X	any
M	methionine	*	translation stop
N	asparagine	-	gap of indeterminate length

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